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DATE MAILED: 04/29/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

22897 7590 04/29/2009

DEMONT & BREYER, LLC 100 COMMONS WAY, Stc. 250 HOLMDEL, NJ 07733 EXAMINER

RAMDHANIE, BOBBY

ART UNIT PAPER NUMBER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,220	01/30/2004	Ilya Feygin	153-036US	9574

TITLE OF INVENTION: APPARATUS AND METHOD FOR INVESTIGATING CHEMICAL ENTITIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/29/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on nerwise in Block 1, by (rders and notification of a) specifying a new corn	maintenance fees verspondence address	vill be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
DEMONT & F 100 COMMONS HOLMDEL, NJ	S WAY, Ste. 250	/2009		Ces	tificat	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
			-				(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/769,220 TITLE OF INVENTION	01/30/2004 I: APPARATUS AND M	ETHOD FOR INVESTI	Ilya Feygin GATING CHEMICAL E	NTITIES		153-036US	9574
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nonprovisional	YES	\$755	\$300	\$0		\$1055	07/29/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7			
RAMDHAN	TE, BOBBY	1797	436-164000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON		to 3 registered pater tively, gle firm (having as a r agent) and the nan torneys or agents. If we printed. type) patent. If an assign assignment.	n memb es of u no nan	per a 2p to 2	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	☐ Individual ☐ C	orporat	ion or other private gro	oup entity Government
Advance Order -	No small entity discount p	permitted)	b. Payment of Fee(s): (PI A check is enclosed Payment by credit of The Director is here overpayment, to De	ard. Form PTO-203	is atta	ached. required fee(s), any de	
	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no le				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than k Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confiden submitting the completes this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC t13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR	on is required to obtain o 1.14. This collection is of depending upon the inc e Chief Information Offi COMPLETED FORMS	r retain a benefit by estimated to take 12 lividual case. Any co icer, U.S. Patent and TO THIS ADDRES	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of timerk Office, U.S. Depa D TO: Commissioner	by the USPTO to process) gg gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/769,220	01/30/2004	Ilya Feygin	153-036US 9574		
22897 7	590 04/29/2009	EXAMINER			
DEMONT & BE	REYER, LLC	RAMDHANIE, BOBBY			
100 COMMONS WAY, Ste. 250			ART UNIT	PAPER NUMBER	
HOLMDEL, NJ 0	7733	1797			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 883 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 883 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/769,220 FEYGIN, ILYA Notice of Allowability Examiner Art Unit BORRY RAMDHANIE 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the amendment filed on 02/17/2009. The allowed claim(s) is/are 1-6,8-13,15 and 16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s)

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

1. | Notice of References Cited (PTO-892)

Paper No./Mail Date

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. T Examiner's Comment Regarding Requirement for Deposit

Information Disclosure Statements (PTO/SB/08).

5. Notice of Informal Patent Application

 Interview Summary (PTO-413), Paper No./Mail Date .

9. ☐ Other .

7. X Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see remarks, filed 02/17/2009, with respect to Claims 1-6,
 8-13, 15, & 16 have been fully considered and are persuasive. The rejections of 102 &
 103 have been withdrawn.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Wayne Breyer on 04/23/2009.

The application has been amended as follows:

Please amend the Claims as follows:

8. (Currently Amended) A method comprising:

positioning a sliding separator along a plurality of IR-transmitting optical fibers, wherein a change in the relative position of the sliding separator along the fibers alters a separation therebetween, wherein the alterable separation facilitates the engagement of the optical fibers with individual samples disposed in wells of any one of a variety of different-sized sample plates having different spacing between the wells; physically engaging a chemical entity to a first end of an IR-transmitting fiber; bringing said chemical entity in contact with a binding compound:

contacting the first end of a first one of the optical fibers with a first sample within one of the wells, wherein the contact introduces a chemical entity and a binding compound to each other, thereby resulting in a first binding interaction; and

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conducting a <u>first</u> thermal signal resulting from [[a]] <u>the first</u> binding interaction to a thermal sensor through said at first IR-transmitting <u>optical</u> fiber, <u>wherein said binding</u> interaction occurs between said chemical entity and said binding compound.

- 9. (Currently Amended) The method of claim 8 further comprising <u>physically</u> engaging the chemical entity to the first end of the first optical fiber before contacting the first end of the fiber with the first sample, wherein the first sample contains the binding compound sliding a separator along said IR-transmitting fiber.
- 10. (Currently Amended) The method of claim 8 further comprising physically engaging the binding compound to the first end of the first optical fiber before contacting the first end of the first fiber with the first sample, wherein the sample contains the chemical entity wherein engaging a chemical entity further comprises inserting said first end of said IR transmitting fiber into a sample carrier.
- 11. (Currently Amended) The method of claim 8 wherein-bringing said chemical entity in contact with a binding compound further comprises inserting said first end of said IR transmitting fiber into a well after engaging said chemical entity further comprising: contacting the first end of a second optical fiber with a second sample within another one of the wells, wherein the contact introduces a second chemical entity and the binding compound to each other, thereby resulting in a second binding interaction, wherein contact between the first optical fiber and the first sample and the second optical fiber and the second sample is simultaneous; conducting a second thermal signal resulting from the second binding interaction to a thermal sensor through said second IR-transmitting optical fiber; and comparing the first thermal signal and the second thermal signal to one another.

Claim 17: (Cancelled).

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Allowable Subject Matter

1. Claims 1-6, 8-13, 15, & 16 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-6, 8-

13, 15, & 16 are towards an apparatus and method which comprises a sliding separator,

wherein said separator engages said plurality of fibers and is slideable therealong to

alter a separation therebetween, wherein the alterable separation facilitates the

engagement of the optical fibers with individual samples disposed in wells of any one of

a variety of different-sized sample plates having different spacing between the wells

suitable for spatially separating said optical fibers from one another in a pattern that

enables said optical fibers to physically engage individual samples on a sample plate.

3. The prior art of record does not disclose nor suggest a sliding separator with this

configuration.

4. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Telephonic Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BOBBY RAMDHANIE whose telephone number is

(571)270-3240. The examiner can normally be reached on Mon-Fri 8-5 (Alt Fri off).

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6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. R./

/Walter D. Griffin/

Supervisory Patent Examiner, Art Unit 1797